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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/924,491	08/09/2001	Meschia Maurilio	3410-29	2557

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ARLINGTON, VA 22203

EXAMINER
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AMINZAY, SHAIMA Q

ART UNIT	PAPER NUMBER
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2618

SHORTENED STATUTORY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE
3 MONTHS	01/05/2007	PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

## Office Action Summary

Application No.

09/924,491

Applicant(s)

MAURILIO, MESCHIA

Examiner

Shaima Q. Aminzay

Art Unit

2618

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 13 November 2006.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 5-18 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 5-18 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 09 August 2001 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some \* c) ☐ None of:
- 1) ☒ Certified copies of the priority documents have been received.
  - 2) ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - 3) ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |  |   |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892)   | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                   | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

### ***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. Claims 5-18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Gernert (Gernert et al., US Patent No. 6,600,734) in view of Kitahata (Kitahata et al., US Patent No. 6,037,400).

Regarding claim 16, Gernert discloses a network connection system [for injection presses for plastics] (see for example, Figure 1, column 1, line 21-26, column 2, lines 8-20, lines 38-49, column 3, lines 48-67 continued to column 4, lines 1-10, lines 30-67 continued to column 5, lines 1-34, lines 54-65, column 6, lines 13-15, 18-21, 25-27, column 7, lines 1-13, column 8, lines 16-24, network connection system for user equipments such as mobile units, fax machine and other factory tools (injection presses) or other communication tools and equipments in a manufacturing facility), comprising a plurality of injection presses (factory tools) for connection to a network managed by a server (4) to share common resources and exchange data (see for example, Figure 1, column 1, line 21-26, column 2, lines 8-20, column 3, lines 48-67 continued to column 4, lines 1-

10, column 6, lines 13-15, 18-21, 25-27, lines 38-67 continued to column 7, lines 1-13, the plurality of user equipment such as mobile units, fax machine and other factory tool (injection presses) or other communication tools and equipments in manufacturing facility making connection by a server in a network to share resources and communicate with each other (exchange data)), each injection press (factory tools) comprising an industrial computer (11) that controls operation of the press (see for example, Figure 1, column 1, line 21-26, column 3, lines 48-67 continued to column 4, lines 1-10, column 6, lines 13-15, 18-21, 25-27, lines 38-67 continued to column 7, lines 1-13, each of the user equipment such as mobile units, fax machine and other factory tool (injection presses) or other communication tools and equipments in manufacturing facility is being controlled by a computer (industrial computer) to operate within the system), characterized in that the network connection system further comprises: - radio communications devices (12) installed in said industrial computers (11) of the injection presses (1) (see for example, Figure 1, column 2, lines 8-20, lines 38-63, column 5, lines 21-34, lines 54-65, column 6, lines 40-53, column 8, lines 16-24, column 11, lines 30-42, column 12, lines 2-33, the computer (industrial computer) includes components (devices installed) capable of RF communication with the user equipment such as mobile units, fax machine and other factory tool (injection presses) or other communication tools and equipments in manufacturing facility), and - at least one wireless communication device (12; 20) connected to said server (4) for communicating with said radio communications

devices (12) installed in said industrial computers (11) of the injection presses (1) (see for example, *Figures 1 and 3, column 2, lines 8-20, column 3, lines 56-67 continued to column 4, lines 1-10, column 5, lines 54-67 continued to column 6, lines 1-10, column 7, lines 59-67 continued to column 8, lines 1-28, column 14, lines 6-13, column 15, lines 13-19, the connected wireless device communicates with the network server*), through radio communication in frequency bands available for radio communications, so that a wireless network is formed between said industrial computers (11) of injection presses (1) and said server (4) (see for example, *Figures 1 and 3, column 2, lines 8-20, column 3, lines 56-67 continued to column 4, lines 1-10, column 5, lines 1-34, lines 54-67 continued to column 6, lines 1-10, lines 40-53, column 7, lines 59-67 continued to column 8, lines 1-28, column 11, lines 30-42, column 12, lines 2-33, column 14, lines 6-13, column 15, lines 13-19, through RF communication using the existing frequencies for the communication to form the system communication within the network and server*).

Gernert does not specifically teach injection presses for plastics, however, Gernert teaches the user equipment and manufacturing tools (see for example, *column 3, lines 55-67, and column 7, lines 4-13*).

In a related art dealing with wireless and or wired communication system (see for example, *column 1, lines 16-23*), Kitahata teaches injection presses for plastics (see for example, *column 1, lines 16-23, column 2, lines 4-14, column 7, lines 29-36*).

It would have been obvious to one of ordinary skill in the art at the time invention was made to include Kitahata's injection presses for plastics into Gernert's network communication system to provide an improved user device network connection such as LAN and/or WAN connections and to communication system for the manufacturing facility (Gernert, *see for example, column 1, lines 21-26, column 2, lines 8-20, lines 38-63, column 3, lines 48-67, column 4, lines 1-10, lines 30-67, and column 7, lines 4-13, and Kitahata, column 1, lines 16-23, lines 23-28*).

Regarding claim 5, Gernert in view of Kitahata teach all the claimed limitations as recited in claim 16, and further, Gernert teaches characterized in that said server (4) is connected to said hard-wired network (10; 50) through a hard-wired connection (16; 52) by means of network boards (15) for transmission via cable (*see for example, Figure 1, column 2, lines 38-49, column 3, lines 56-67, column 5, lines 21-34, lines 65-67 continued to column 6, lines 1-10, column 7, lines 59-67 continued to column 8, lines 1-24, the wireless and wired network being managed by the server that is hard wired to the network*).

Regarding claim 6, Gernert in view of Kitahata teach all the claimed limitations as recited in claim 16, and further, Gernert teaches characterized in that said server (4) is connected to said hard-wired network (10; 50) through a radio link,

by means of said radio communications device (12) (see for example, Figure 1, column 2, lines 38-49, column 3, lines 56-67, column 5, lines 21-34, lines 65-67 continued to column 6, lines 1-10, column 7, lines 59-67 continued to column 8, lines 1-24, the server connection via radio link and the communication device).

Regarding claim 7, Gernert in view of Kitahata teach all the claimed limitations as recited in claim 6, and further, Gernert teaches characterized in that said server is a computer (11) of one of the injection press (1) (see for example, Figure 1, column 3, lines 56-67, column 5, lines 65-67 continued to column 6, lines 1-10, lines 38-53, column 7, lines 4-13, column 11, lines 30-42, column 12, lines 22-33, server and the computerized tools such as fax or other manufacturing tools (injection press, tool)).

Regarding claim 8, Gernert in view of Kitahata teach all the claimed limitations as recited in claim 16, and further, Gernert teaches characterized in that peripheral devices (17) are connected to said network (10; 50), through a hard-wired connection (16; 53), by means of network boards (15) for transmission via cable (see for example, Figure 1, column 2, lines 38-49, column 3, lines 56-67, column 5, lines 21-34, column 7, lines 59-67 continued to column 8, lines 1-24, the wireless and wired network transmission).

Regarding claim 9, Gernert in view of Kitahata teach all the claimed limitations

as recited in claim 16, and further, Gernert teaches characterized in that peripheral devices (17) are connected to said hard-wired network (10, 50) through a radio link, by means of devices (12) for radio transmission (see for example, Figure 1, column 2, lines 38-49, column 3, lines 56-67, column 5, lines 21-34, column 7, lines 59-67 continued to column 8, lines 1-24, the wireless and wired network transmission).

Regarding claim 10, Gernert in view of Kitahata teach all the claimed limitations as recited in claim 16, and further, Gernert teaches characterized in that said server (4) has devices (32, 35) for connection to another local network (LAN) (30) or to a WAN external network (31) (see for example, Figure 1, column 2, lines 38-49, column 3, lines 56-67, column 5, lines 21-34, lines 65-67 continued to column 6, lines 1-10, column 7, lines 59-67 continued to column 8, lines 1-24, the server connection to LAN and WAN).

Regarding claim 11, Gernert in view of Kitahata teach all the claimed limitations as recited in claim 10, and further, Gernert teaches characterized in that said device (32) for connection of the server (4) to another local network (LAN) (30) is a network board (32) for connection by cable or by radio link (see for example, Figure 1, column 2, lines 38-49, column 3, lines 56-67, column 5, lines 21-34, column 5, lines 65-67 continued to column 6, lines 1-10, column 7, lines 59-67 continued to column 8, lines 1-24, the wireless and wired network connections).



Regarding claim 12, Gernert in view of Kitahata teach all the claimed limitations as recited in claim 10, and further, Gernert teaches characterized in that said device (35) for connection of the server (4) to another outside network (WAN) (31) is an analogical or digital modem (35) *(see for example, Figure 1, column 2, lines 38-49, column 3, lines 56-67, column 5, lines 21-34, lines 65-67 continued to column 6, lines 1-10, column 7, lines 59-67 continued to column 8, lines 1-24, the server connection to WAN).*

Regarding claim 13, Gernert in view of Kitahata teach all the claimed limitations as recited in claim 10, and further, Gernert teaches characterized in that said device (35) for connection of the server (4) to another outside network (WAN) (31) is a router *(see for example, Figure 1, column 2, lines 38-49, column 3, lines 56-67, column 5, lines 21-34, lines 65-67 continued to column 6, lines 1-10, column 7, lines 59-67 continued to column 8, lines 1-24, the server connection to WAN).*

Regarding claim 14, Gernert in view of Kitahata teach all the claimed limitations as recited in claim 16, and further, Gernert teaches characterized in that said network (10) is an Ethernet local network (LAN) of the linear type *(see for example, Figure 1, column 4, lines 30-60, column 5, lines 21-3, column 10, lines 44-52, column 15, lines 13-19).*

Regarding claim 15, Gernert in view of Kitahata teach all the claimed limitations as recited in claim 16, and further, Gernert teaches characterized in that said network (50) is an Ethernet local network (LAN) of the star type with a hub distributor device (2) (*see for example, Figure 1, column 4, lines 30-60, column 5, lines 21-3, column 10, lines 44-52, column 15, lines 13-19*).

Regarding claim 17, Gernert in view of Kitahata teach all the claimed limitations as recited in claim 16, and further, Gernert characterized in that between said devices (12) installed in said industrial computer (11) of the presses (1) (*see for example, Figure 1, column 2, lines 8-20, lines 38-63, column 5, lines 21-34, lines 54-65, column 6, lines 40-53, column 8, lines 16-24, column 11, lines 30-42, column 12, lines 2-33, the computer (industrial computer) includes components (devices installed) capable of RF communication with the user equipment such as mobile units, fax machine and other factory tool (injection presses) or other communication tools and equipments in manufacturing facility*) and said at least one wireless communication device (12; 20) connected to the server (4) data are exchanged in a frequency band ranging between 2.4 GHz and 2.5 GHz. (*see for example, column 2, lines 8-20, lines 38-63, column 7, lines 59-67 continued to column 8, lines 1-24, column 11, lines 30-42, the wireless network connection, the access point and frequency band range of 2.4 GHz*).

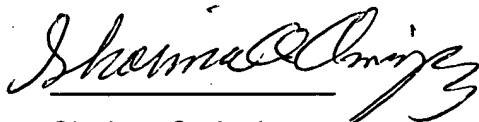
Regarding claim 18, Gernert in view of Kitahata teach all the claimed limitations as recited in claim 16, and further, Gernert characterized in that said at least one wireless communication device (20) is a wireless access point (20) connected to a hard-wired network (10; 50) managed by said server (4) *(see for example, column 2, lines 8-20, lines 38-63, column 3, lines 56-67, column 5, lines 21-34, lines 65-67 continued to column 6, lines 1-10, column 7, lines 59-67 continued to column 8, lines 1-24, column 11, lines 30-42)..*

## Conclusion

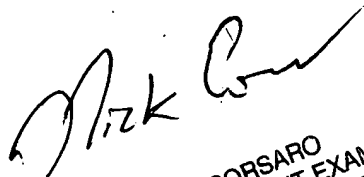
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Shaima Q. Aminzay whose telephone number is 571-272-7874. The examiner can normally be reached on 7:00 AM -4:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mathew D. Anderson can be reached on 571-272-4177. The fax number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Shaima Q. Aminzay  
(Examiner)



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December 26, 2006